

# PATENT ABSTRACTS OF JAPAN

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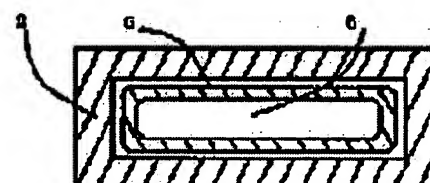
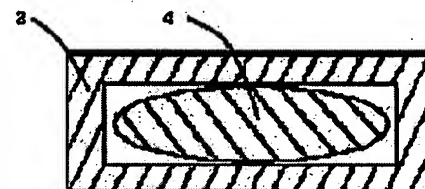
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## (54) CLEANING DEVICE AND EQUIPMENT FURNISHED WITH DETERGENT CONTAINER AND DETERGENT CONTAINER CASE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce labor greatly and carry out cleaning in a shorter time by providing a detergent container or a detergent container case and constituting the container or the case so as to put a detergent or a container containing a detergent therein and take out the detergent from the main body for use.

**SOLUTION:** In a sponge scrubbing brush 1 constituting a cleaning device, the main body of a sponge 2 formed a detergent container, and a soap 4 as the detergent is contained therein. In other case, a detergent 6 is filled in the main body of the sponge 2, and a container 5 having a nozzle is stored there. A push-button to take out the detergent 6 and the blow-out opening of a nozzle are located within the sponge 2. As the body is a sponge, it is soft, and the detergent is ejected by pressing the push button from the outside of the body, and the detergent oozes out from the inside of the sponge 2. The container 5 can be put in or out from the sponge scrubbing brush 1, the detergent 6 can be refilled, the container 5 with a nozzle can be replaced, and the nozzle and the container can be replaced.



**LEGAL STATUS**

[Date of request for examination]

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CLAIMS

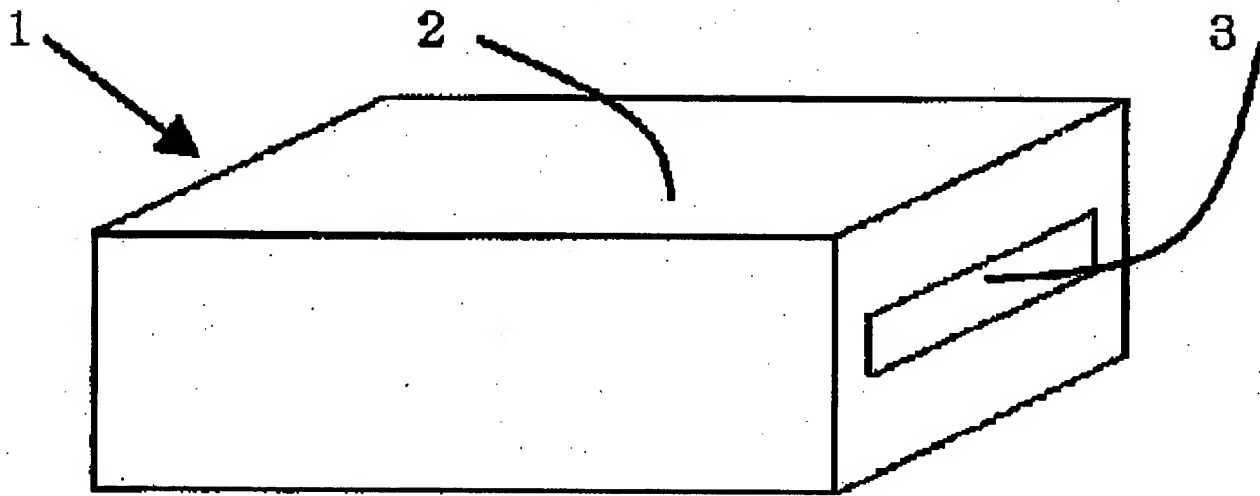
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[Claim(s)]

[Claim 1] The cleaning equipment and cleaner machine (it is named the cleaning equipment generically below.) which are characterized by constituting so that detergent ON \*\* and detergent container ON \*\* (it is named detergent ON \*\* generically below) may be prepared, the container with which the detergent and the detergent entered there may be put in and it may be used from a body, taking out a detergent.

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[Translation done.]



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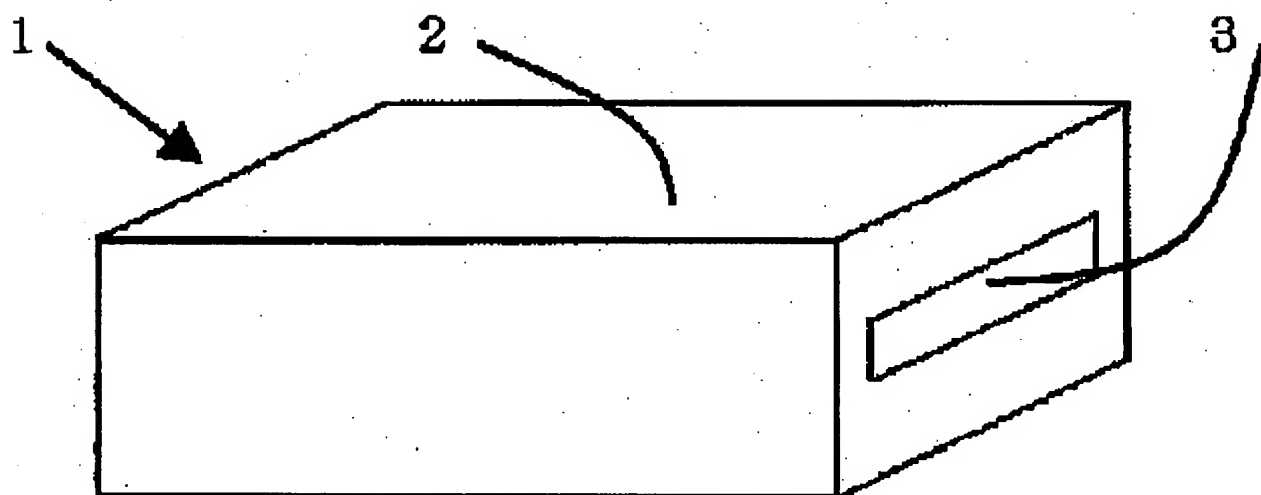
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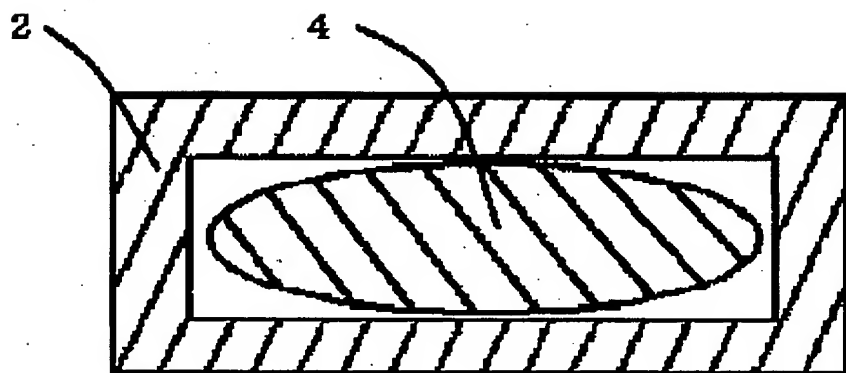
[Claim(s)]

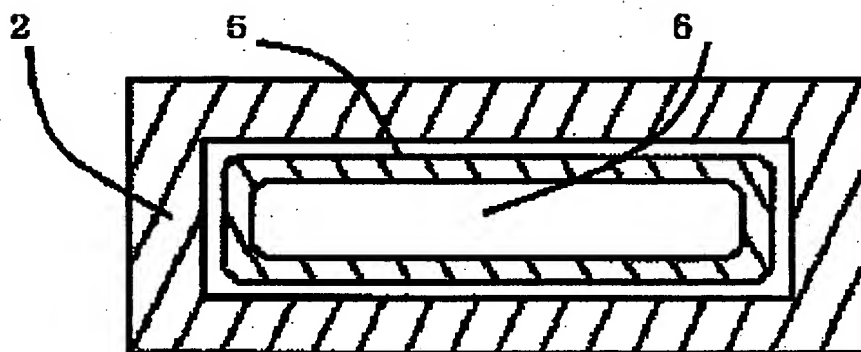
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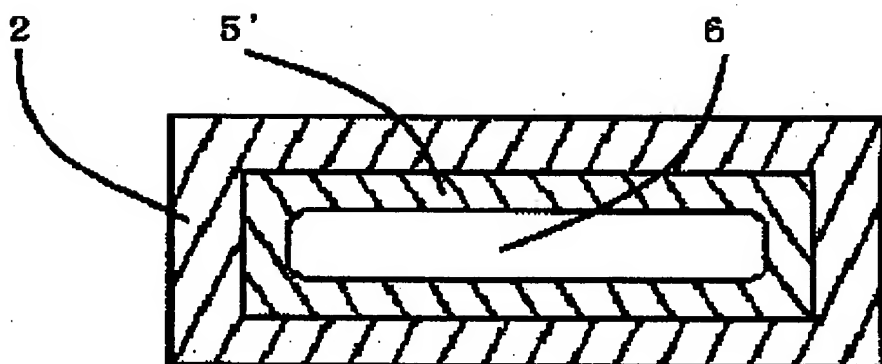
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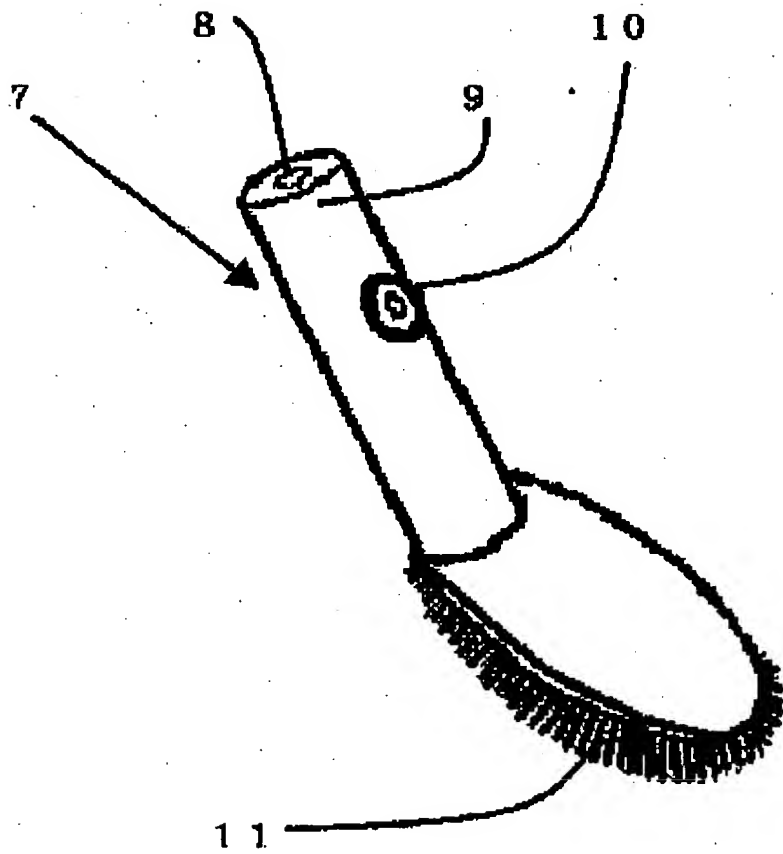


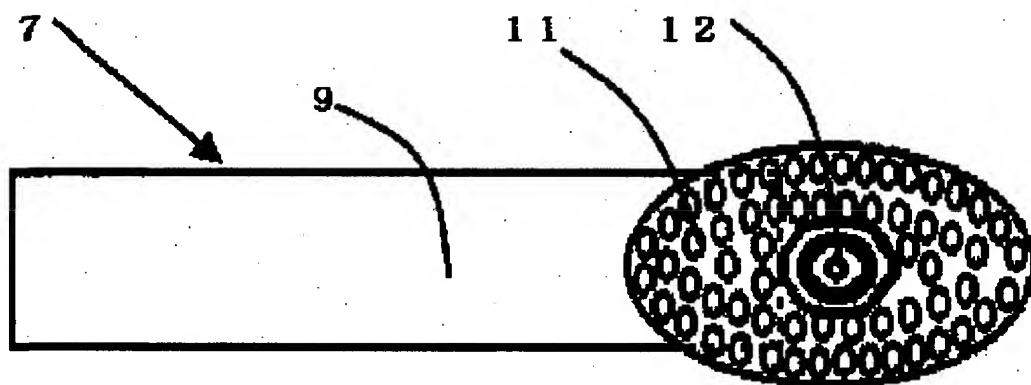


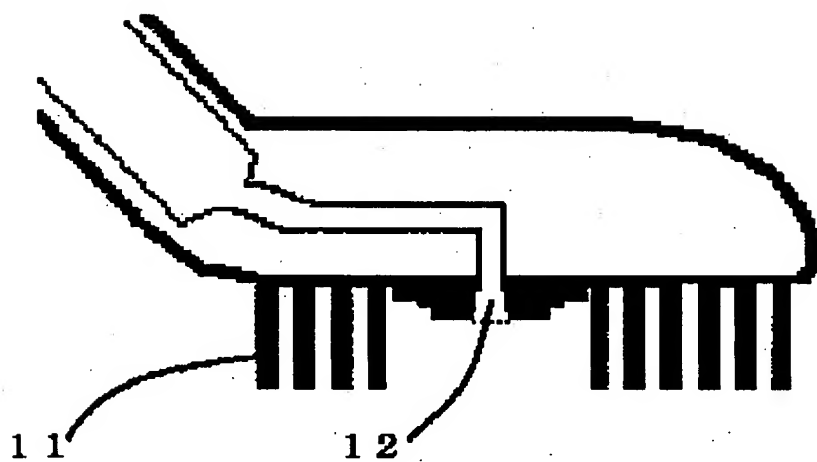












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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Industrial Application] This is invention about the cleaning equipment for cleaning up using a detergent.

[0002]

[Description of the Prior Art] The conventional cleaning equipment is only what wipes or grinds the part which only became dirty, and in order to remove dirt finely, without giving a blemish, it uses together with cleaning equipment and uses a detergent in many cases. When a detergent was attached to an object, the motion which wipes each time or is ground was interrupted temporarily, and there was a problem that a detergent had to be attached. Moreover, there was separating from a hand or already having a detergent by one of the two with cleaning equipment each time with cleaning equipment, by the problem which it must have again, and one hand etc., also when you needed both hands. When cleaning a large location otherwise, the detergent may be beforehand attached to the wide range location from the problem of workability, but since it became dirty with a detergent, the part could not be pried into until cleaning finished, and cautions were needed. Moreover, when the detergent was attached to the floor with a wall surface or an inclination etc., hung down downward, or it flowed, or it was blown away by the wind, and the detergent might be attached to the part without the need.

[0003]

[Problem(s) to be Solved by the Invention] This invention aims at offering the cleaning equipment which cancel the trouble about the above-mentioned cleaning.

[0004]

[Means for Solving the Problem] The cleaning equipment of this invention that attains the above-mentioned purpose prepares detergent ON \*\*, it puts in the container with which the detergent and the detergent entered there, and is characterized by constituting so that it may be used from a body, taking out a detergent.

[0005]

[Function] The cleaning equipment of this invention can attach a detergent, cleaning up without interrupting the motion wiped or ground, and it becomes unnecessary working [ which separates from a hand or it has again with cleaning equipment ] it. Moreover, it comes to be able to perform only single hand the activity which already has cleaning equipment at one of the two with a detergent single hand. Since a detergent is otherwise attached only to the part which cleaning equipment contacts, an activity [ in the narrow range ] is attained as much as possible.

[0006]

[Example] Drawing 1 is the perspective view of one sponge TAWASHI which prepared detergent ON \*\*, 1 is sponge TAWASHI, 2 is sponge and 3 is the entry of detergent ON \*\*. Drawing 2 is the sectional view of one above-mentioned sponge TAWASHI, and 4 is soap. The body of cleaning equipment is sufficient as detergent ON \*\*, and detergent ON \*\* is a body of sponge in this case. Drawing 3 is the sectional view of two above-mentioned sponge TAWASHI, 5 is the container into which a detergent is

put and the nozzle attaches it. Although the push button for taking out a detergent and the diffuser of a nozzle are in sponge TAWASHI, since a body is sponge, it is soft, and a push button is pushed from the exterior of a body, a detergent is taken out, and a detergent oozes out outside from the interior of sponge TAWASHI. Moreover, receipts and payments and removal are made as for 5 to 1, a detergent is filled up or it can perform exchange of exchange of a container with a nozzle, a nozzle, or a container. 6 is a detergent included in a container. Drawing 4 is the sectional view of an example besides above-mentioned sponge TAWASHI, 5' is detergent ON \*\* which it is fixed to sponge TAWASHI and attached, and the nozzle attaches it. Drawing 4 puts in and uses a direct detergent for 5'. Drawing 5 is the perspective view of one TAWASHI which it had and the hand attached, and TAWASHI which 7 had and the hand attached, and 8 are the lids of detergent leakage prevention. 9 had, is a hand and has prepared detergent ON \*\* into it. 10 is a push button for taking out a detergent. 11 is the brush part of TAWASHI. Drawing 6 is the top view which looked at one TAWASHI which the above had and the hand attached from the bottom, and 12 is a diffuser of a nozzle with which a detergent comes out. Drawing 7 is the side elevation of the TAWASHI part of one TAWASHI which the above had and the hand attached, and 12 is equivalent to the part which is contained in inside and is cleaned rather than 11. Although four operations were explained above, this invention can use the following embodiments.

- (1) The ingredient of a part which cleaning equipment wipes or is ground will not ask the class, if a thing, cloth, sponge, paper, etc. which tied up the hair of straw and \*\*\*\*\* etc. into a knot have a function as cleaning equipment.
- (2) About the approach of taking detergent ON \*\* in and out of cleaning equipment, it can be made a pocket, can be made double doors opening outward, or can be made sandwiches, and a fixture, such as hooking by hook etc. about the approach of attaching, or fixing with an elastic band etc., can be used, and don't take in and out of cleaning equipment, or don't ask about the approach for attaching, the class of fixture, and an installation location.
- (3) Don't ask the entry of detergent ON \*\* about the class of ingredient for being able to avoid separating with a fastener, a piece of Velcro, a lid, etc., and making it not separate, an approach, and an installation location.
- (4) If a detergent container can put the object of a plastics system, the container of a vinyl system, etc. into cleaning equipment or it can attach, it will not ask the class.
- (5) In addition to an example, cleaning equipment can ask and use the class, if the others and the cleaner which are a mop, a broom, a hand wiper, the brush for a shampoo, TAWASHI, a towel, etc., wax cliff machines, etc. are the cleaning equipment using a detergent.
- (6) Don't ask about the classes or installation locations of an ingredient, such as an approach for taking out a detergent from detergent ON \*\* outside, a nozzle, and a push button.
- (7) it has come out of detergent ON \*\* to prepare in inside of the body of cleaning equipment, such as inside of a part for a carrying handle or sponge TAWASHI, or every outside part.
- (8) Detergent ON \*\* with a nozzle can free receipts and payments and removal from cleaning equipment, or the nozzle other than the object made to fix can be made to be able to fix, and a container can be used as a dismountable object.

[0007]

[Effect of the Invention] The cleaning equipment of this invention is constituted as mentioned above, and it can expect the following effectiveness. Since it can clean up, without interrupting a motion, and it had, \*\*\*\* squirrel \*\*\*\*\* became [ cleaning equipment is separated from a hand or ] unnecessary and efforts were reduced sharply, it became possible to clean up more comfortably in a short time. Moreover, since the detergent was attached only to the part in contact with cleaning equipment, it became unnecessary to attach a detergent beforehand and an activity [ in the narrow range ] was attained, it was lost that can suppress a fear of becoming dirty with a detergent and cautions as much as possible, and a detergent hangs down downward, or flow, and a detergent is attached to a part without the need.

[Translation done.]